

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S118	33	("3067009"   "3146061"   "3997652"   "4603148").PN. OR ("4853148").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 11:50
S117	2	((("5135548") or ("4853148"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/01 11:50
S121	0	carbonaceous support and S120	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 11:52
S120	36	("2196246"   "2201206"   "2348702"   "3647367"   "3760050"   "3773471"   "3893920"   "4588709"   "4604270"   "4695487"   "4707299"   "4743372"   "4820672"   "4832935"   "4840637"   "4853148"   "4867960"   "4925646"   "4959076"   "5094754"   "5135548"   "5202106"   "5240612"   "5322674"   "5401876"   "5539998"   "5597545"   "5637544"   "5645853"   "5766565"   "5827492"   "5910292"   "5958356").PN. OR ("7288201").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 11:52
S119	1	carbonaceous support and S118	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 11:52
S122	6	carbonaceous (support or substrate) same hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 11:53
S123	3	((("4925646") or ("5135548") or ("4820672"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/01 13:01

S124	6	((("20040117450") or ("3779839") or ("6551409") or ("5470421") or ("4749440") or ("3909304"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/01 13:20
S125	6	carbonaceous (support or substrate) with hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:23
S126	0	carbon molecular (support or substrate) with hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:52
S128	5	S127 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:53
S127	10	carbon (support or substrate) with hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:53
S129	2	(dried or dry or anhydrous) magnesium with (carbon or carbonaceous) (support or substrate or carrier)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:55
S131	3	S130 not S129	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:56
S130	5	(dried or dry or anhydrous) magnesium same (carbon or carbonaceous) (support or substrate or carrier)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:56
S135	1	S134 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:57

S134	14	(desiccant) same (carbon or carbonaceous) (support or substrate or carrier)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:57
S133	0	(desiccant) magnesium same (carbon or carbonaceous) (support or substrate or carrier)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:57
S132	5	(dried or dry or anhydrous or desiccant) magnesium same (carbon or carbonaceous) (support or substrate or carrier)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:57
S136	1	(purify or purity or pure or purified) hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine) and desiccant	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 13:59
S139	3	((("4677096") or ("4708853") or ("4402717"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/01 14:03
S138	22	"4708853"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:03
S137	13	"4677096"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:03
S140	1	("4702749").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/01 14:05
S142	129	(adsorption or adsorbent) with hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:12

S141	10	(adsorption or adsorbent) with hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine) and desiccant	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:12
S144	42	S143 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:13
S143	129	S141 or S142	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:13
S146	3	S145 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:15
S145	21	(adsorption or adsorbent) with hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine) same (drying or dried)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:15
S148	4	S147 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:17
S147	33	(adsorption or adsorbent) same hydrogen (halide or fluorine or chlorine or bromine or iodine or astatine) with (drying or dried or purity or purify or purified or purifier)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:17
S149	14	("4532778"   "4853148"   "5137047"   "5148945"   "5359787"). PN. OR ("5539998").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/01 14:19
S151	33	(heavy oil or sand or shale or residuum) same (fractionation or distillation) and (residuum or resid) same dewax	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 09:35

S150	0	(heavy oil or sand or shale or residuum) same (fractionation or distillation) and (residuum or resid) near dewax	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 09:35
S152	1	("2361080").URPN.	USPAT	ADJ	ON	2008/10/02 09:39
S153	29	(heavy oil or sand or shale or residuum) same (fractionation or distillation) and (residuum or resid) same (light oil or overhead) same (middle distillate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 09:41
S154	12	S153 and extraction	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 09:44
S155	5	((("6514403") or ("6457197") or ("6638418") or ("6596155") or ("20030111387")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/02 09:49
S156	235	(heavy oil or sand or shale or residuum or crude oil) same (fractionation or distillation) and (residuum or resid) same (heavy fraction or middle distillate)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 09:52
S157	22	(heavy oil or sand or shale or residuum or crude oil) same (fractionation or distillation) and (residuum or resid) same (heavy fraction or middle distillate) same (extraction or solvent extract)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 09:53
S159	39	S158 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:20
S158	133	aromatic extract with cracking	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:20

S162	77	S161 and @ad<"19970729"	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:24
S161	463	extraction with aromatic with cracking	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:24
S160	6774	aromatic with cracking	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:24
S165	6	S164 and @ad<"19970729"	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:34
S164	20	FCC with (aromatic extract)	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:34
S163	577	FCC with (aromatic)	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:34
S166	4	FCC with (aromatic material)	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:35
S167	5	("3256175").URPN.	USPAT	ADJ	ON	2008/10/02 10:38
S168	1	("2109895").URPN.	USPAT	ADJ	ON	2008/10/02 10:41
S171	169	S170 and @ad<"19970729"	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 10:42

S170	267	(fractionation or distillation) with (FCC)	USPAT	ADJ	ON	2008/10/02 10:42
S169	2178	(fractionation or distillation) with cracking	USPAT	ADJ	ON	2008/10/02 10:42
S172	20	severe hydrogenation with (FCC or cracking)	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:24
S173	0	crude oil and (asphalt or asphalted) residuum with (dewax or dewaxing) and hydrofinishing	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:29
S174	1	crude oil and (asphalt or asphalted) residuum same (dewax or dewaxing) and hydrocracking	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:30
S180	111	crude oil same residuum same (dewax or dewaxing)	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:31
S179	0	S178 and @ad< "19970729"	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:31
S178	9	crude oil same residuum same (dewax or dewaxing) same hydrocracking	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:31
S177	0	crude oil same residuum same (dewax or dewaxing) same hydrocracking same FCC	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:31
S176	9	crude oil same residuum same (dewax or dewaxing) same hydrocracking	US- PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:31

S175	14	crude oil same residuum same (dewax or dewaxing) and hydrocracking	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:31
S183	11	S182 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:32
S182	28	crude oil and residuum same (dewax or dewaxing) same hydrocracking	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:32
S181	0	crude oil and residuum same (dewax or dewaxing) same hydrocracking same FCC	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:32
S184	0	S183 and FCC	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:33
S185	0	solvent extraction with propane with ratio and lubricating oil.ab.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:55
S187	2	S186 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:56
S186	16	solvent extraction with propane with ratio	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:56
S190	46	S189 and lubricating oil	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:59



S189	118	S188 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:59
S188	364	solvent extraction with propane	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 13:59
S191	42	S190 and ratio	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 14:00
S194	11	S193 and @ad<"19970729"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 14:18
S193	28	hydrotreatment with cracking and lubricating oil	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 14:18
S192	0	hydrotreatment with FCC with lubricating oil	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 14:18
S196	9	hydrocracking with (FCC or catalytic cracking) and lubricating oil. ab.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 14:25
S195	2264	hydrocracking with (FCC or catalytic cracking)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/02 14:25
S197	14	((("3256175") or ("3660273") or ("3617475") or ("2361080") or ("2109895") or ("4039429") or ("6726835") or ("3622496") or ("4213847") or ("4381234"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/02 14:43

S198	19	((("3617475") or ("3660273") or ("2361080") or ("4640762") or ("5286369") or ("3256175") or ("4750357") or ("4039429") or ("3622496") or ("4460454") or ("2109895") or ("6726835") or ("20030116474") or ("4213847") or ("4381234")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/07 11:35
S200	623	S199 and @ad<"20041213"	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 09:25
S199	2863	(208/87,92,308,311,312,313,320,322,337,347).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/08 09:25
S201	126	S200 and (fractionation or distillation) same solvent (extract or extraction or extractor)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 09:26
S202	10	S200 and raffinate with (light oil or fraction) same (hydrocracking or catalytic cracking)	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 09:48

10/8/2008 10:50:05 AM

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